discoveries. The names and locations of these oil finds are as follows :

ONGC

State/Area	No. of discoveries	Name of field
Gujarat	6	Khambel, Halisa, Khamboi, Wadasma, Kherwa and Asmali.
Tamil Nadu	5	Pallivaramangalam, Mattur, Kuttanallur, Pundi and Kizhvalur.
East Coast	3	GS-15, GS-23 and GS-29.
West Coast	13	B-59, B-127, Gulf-D, Gulf-A, B-180, B-45, WO-5, B-15, B-193, B-153, WO-16, WO-15 and B-15A.

O.I.L.

Assam	10	North Hapjan, Makum, South Rajgarh, Bhekulajan, Rajali, Rungaliting, Borhapjan, Tumlikhat, Madarkhat and Jutlibari.
Arunachal Pradesh	1	Kherem.

(c) The requisite details in respect of each of the above finds is as under :

Structure	Cumulative Production (MMT)	Balance Reserves
1	2	3
North Hapjan	0.09	0.62
Makum	0.04	1.43
South Rajgarh	Nil	0.14
Bhekulajan	0.02	0.36
Rajali	Marginal	0.16
Rungaliting	Marginal	0.75
Borhapjan	Marginal	0.19
Tamulikhat	Marginal	0.15
Madarkhat	Reserves being assessed	
Jutlibari	-do-	
Kherem	-do-	
Khambel	0.0009	0.01
Halisa	0.0004	0.09
Khamboi	0.0020	0.01
Pallivaramangalam	Negligible	0.43
Mattur	0.0065	0.17
Kuttanallur	0.009	0.02
Pundi	0.006	0.03
Kizhvalur	0.0015	0.05
Kherwa	0.0002	To be estimated
Asmali	0.0001	To be estimated
B-59	-	0.24
B-127	-	0.43
Gulf-D	-	0.04
Gulf-A	-	0.07
B-189	-	0.18
B-45	-	0.12
GS-29	-	0.43
WO-5	-	0.21
GS-15	-	0.85
GS-23	-	0.46
B-193	-	0.00
B-153	-	Negligible
WO-16	-	0.26
WO-15	-	0.24
B-15 A	-	0.00
Wadasma	-	Negligible
B-15	-	0.02

(d) and (e). Ninth Plan crude oil targets are yet to be firmed up.

[English]

Crude Oil Production

*286 SHRIMATI VASUNDHARA RAJE :
SHRI BASU DEB ACHARIA :

Will the PRIME MINISTER be pleased to state :

(a) the target fixed and actual production of crude oil during each of the last three years of each oil producing States;

(b) whether the production has been decreasing during these years;

(c) if so, the reasons therefor;

(d) the total value and quantity imported during each of the three last years;

(e) the comparative offshore and onshore crude oil production at present; and

(f) the steps taken by the Government to reduce import and increase the domestic crude oil production?

THE MINISTER OF THE STATE IN THE MINISTRY OF PETROLEUM AND NATURAL GAS (SHRI T.R. BAALU) : (a) to (c) and (e). The state-wise crude oil

production targets and actual production by ONGC/OIL during the last three years was as under :

(000 Tonnes)

	1993-94		1994-95		1995-96 (Provisional)	
	Target	Actual	Target	Actual	Target	Actual
A. Oil and Natural Gas Corp. Ltd.						
Gujarat	5720	5976	5850	6279	6150	6362
Assam	3000	2327	3000	2195	2681	2196
Tamil Nadu/Andhra Pradesh	540	537	681	656	491	418
Bombay High	15160	15375	19818	20226	24062	22674
Offshore						
Total (a)	24420	24215	29349	29356	33384	31650
B. Oil India Limited						
Assam/Arunachal Pradesh	2750	2811	2930	2881	2980	2882
C. Joint Venture + Pvt.	-	-	-	-	-	633
Grand Total (a+b+c) of which	*27170*	*27026*	*32279*	*32237*	*36364*	*35152*
Onshore	*12010*	*11651*	*12461*	*12011*	*12302*	*11866*
Offshore	*15160*	*15375*	*19818*	*20226*	*24062*	*23286*

252000 Tonnes of production from JV + Pvt., included in ONGC and OIL production

The reasons for shortfall in achievement of target during the above period were :

(i) Reduction in anticipated production from the maor fields of BRBC especially Bombay High and Neelam, due to unexpected reservoir behaviour not in conformity with earlier predictions.

(ii) Oil fields entering into the natural declining phase.

(iii) Reduced production from joint venture projects.

(iv) Constraints in operating conditions on account if law and order problems and insurgency in NE region.

(v) Stoppage of work in Nagaland.

(vi) Frequent power shutdown in Western and Eastern region affecting artificial lift operations.

(d) The quantity of crude oil imported during 1993-94 to 1995-96 and its value was as under :

Year	Quantity (000 tonnes)	Value (Rs. Crores)
1993-94	30822	10689
1994-95	27349	10316
1995-96	27342	11517

(f) As the indigenous production of oil is not sufficient to meet the demand requirements, the shortfall is met through imports. The steps taken to increase the crude oil production are :

(i) Development of new fields and additional development of existing fields.

(ii) Implementation of Enhanced Oil Recovery (EOR) Scheme and extension of some of EOR schemes from pilot scale to full scale field application.

(iii) Implementation of certain specialised technology such as extended reach drilling, horizontal and drain hole drilling.

(iv) Obtaining the services of international experts wherever considered necessary.

(v) Maintenance of reservoir health through workover operations, pressure maintenance methods.

(vi) Encouraging the participation of private/joint venture companies in the oil exploration and development programmes.

(vii) 3D-seismic surveys of the oil fields for better reservoir delineation.

(viii) Application and optimisation of artificial lift operations.

(ix) Stimulation of wells.